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the carbon monoxide discrepancy may be due to fact that the pattern temperatures exceeded 550 °C, the upper limit at which the numerical model was calibrated.

In The Claims:

Please cancel claims 1-2192, 2309-5080, and 5101-5149 without prejudice.

Listed below is a clean copy of amended claims. A marked-up copy indicating the amended sections of the claims is provided in an accompanying document.

Please amend the claims as follows:

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2221. (Amended) The method of claim 2220, wherein the partial pressure of H₂ within the mixture is measured when the mixture is at a production well.

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2260. (Amended) The method of claim 2232, further comprising producing a mixture from the formation, wherein a partial pressure of H₂ within the mixture is measured when the mixture is at a production well.

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2298. (Amended) The method of claim 2270, further comprising producing a mixture from the formation, wherein a partial pressure of H₂ within the mixture is measured when the mixture is at a production well.

2299. (Amended) The method of claim 2270, further comprising altering a pressure within the formation to inhibit production of hydrocarbons from the formation having carbon numbers greater than about 25.

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2300. (Amended) The method of claim 2270, further comprising producing a mixture from the formation and controlling formation conditions by recirculating a portion of hydrogen from the mixture into the formation.

If any fees are inadvertently omitted or if any additional fees are required or have been overpaid, please appropriately charge or credit those fees to Conley, Rose & Tayon, P.C. Deposit Account Number 501505/5659-06000/EBM.

Respectfully submitted,

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